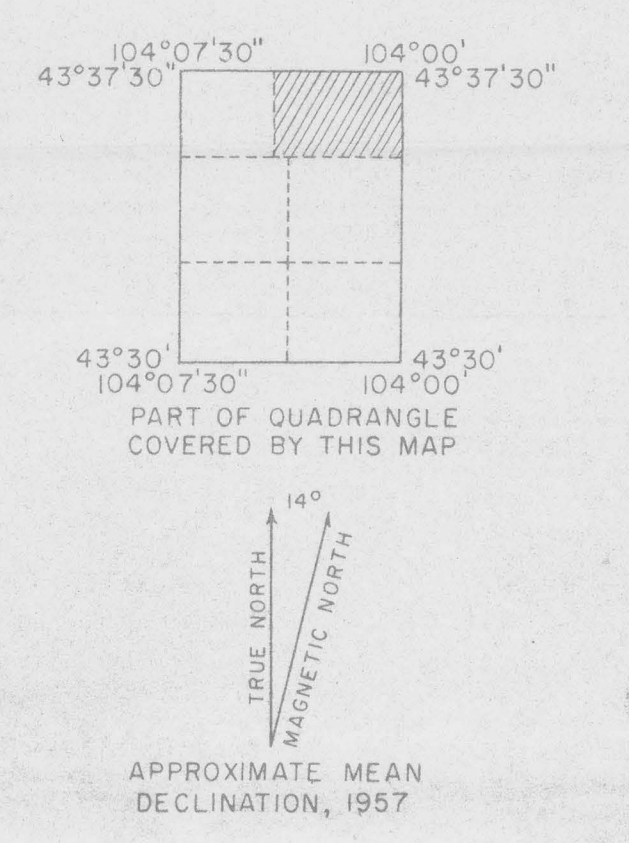




U.S. GEOLOGICAL SURVEY
AUG 16 1993
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- EXPLANATION**
- Qal Alluvium
 - Q1g Terrace gravel
 - Ksc Skull Creek shale
 - Kfr Fall River sandstone
 - Kfl Fuson formation and Lakota sandstone undivided
- Top of Fall River sandstone and base of Lakota sandstone indicated by ticked lines. Contact between Fall River sandstone and Fuson formation indicated by doubly ticked line. Detailed lithology of units within the Inyan Kara formations is as follows: s, sandstone; sl, siltstone; m, mudstone; ms, interbedded mudstone and sandstone, mudstone predominant. Prominent sandstone units are numbered from oldest to youngest as follows:*
- Unit 5S5 is an orange to red, medium to fine-grained, crossbedded channel sandstone. It contains irregularly distributed thin lenses of clay galls, conglomerate and round concretions of white sandstone. This unit has been labeled S6 on the preliminary geologic maps of the Flint Hill, Edge-mont NE, and Minnekahta quadrangles. Locally uranium-bearing.
 - Unit 1S is a massive to crossbedded light yellow to gray cliff-forming sandstone with interbedded conglomerate, fine-grained to granule sandstone, and some scattered thin beds of mudstone.
- Jm Morrison formation
 - Jsr Sundance formation
 - Jsl Redwater shale member; Jal, Lak member;
 - Jsh Hulett sandstone member; Jss, Stockade Beaver shale member.
 - Jsb
 - Trs Spearfish formation
- Contact
Dashed where approximately located
 - Indefinite or inferred contact
 - Limit of exposure
Areas of exposure denoted by "e"
 - U Fault
U, upthrown side; D, downthrown side
 - Concealed Fault zone
Determined by geophysical methods
 - Areas of much landslide debris
Triangles point toward area
 - Structure Contours
4000
Drawn on base of Fall River Sandstone. Dashed where approximately located; dotted where projected above the surface. Contour interval is 50 feet. Datum is mean sea level.
- LOWER CRETACEOUS**
Inyan Kara group
- UPPER JURASSIC**
- TRIASSIC**
- QUATERNARY**



Topography by U.S. Geological Survey
by multiplex methods from aerial photographs

Geology mapped in 1955 and 1956

PRELIMINARY GEOLOGIC MAP OF THE NORTHEAST PART OF THE DEWEY QUADRANGLE, CUSTER COUNTY, SOUTH DAKOTA, AND WESTON COUNTY, WYOMING

By
D. A. Brobst
Scale 1:7200

Contour interval 20 feet
Datum is mean sea level
1957